

**A SYSTEM AND METHOD OF  
HEAT DISSIPATION IN SEMICONDUCTOR DEVICES**

**ABSTRACT**

**[0029]** The present disclosure provides a method and system for heat dissipation in semiconductor devices. In one example, an integrated circuit semiconductor device includes a semiconductor substrate; one or more metallurgy layers connected to the semiconductor substrate, and each of the one or more metallurgy layers includes: one or more conductive lines; and one or more dummy structures between the one or more conductive lines and at least two of the one or more dummy structures are connected; and one or more dielectric layers between the one or more metallurgy layers.